

TOUR À VIS-MÈRE
SCHAUBLIN
102 VM

**INSTRUCTIONS
DE SERVICE**

A remettre à la personne chargée de la conduite de la machine.

La reproduction du texte ainsi que des dessins et des clichés est interdite. Les cotes, poids et illustrations ne sont donnés qu'à titre d'indication et nous nous réservons la possibilité d'apporter toutes modifications à la construction.

Mach. N° : 1518.....

BL N° : 139057

Tension : 220V.

FABRIQUE DE MACHINES **SCHAUBLIN S.A. BÉVILARD/SUISSE**

TOUR À VIS-MÈRE DE GRANDE PRÉCISION
SCHAUBLIN 102VM

CARACTÉRISTIQUES PRINCIPALES

Hauteur de pointes	mm	102
Distance entre pointes	mm	500
POUPÉE POUR PINCE TYPE W20		
Alésage de l'arbre	mm	20
Passage de barre en pince	mm	14,5 - 9/16"
Diamètre maximum de serrage	mm	20
Largeur des gradins de poulie	mm	32
Diamètre des gradins de poulie	mm	75 - 100 - 125
Vitesses normales de la broche (voir tableau page 5)	t/min.	40-3000

Pour vitesses plus élevées, prière de nous consulter

Réducteur à engrenages, rapport

Sur demande, le tour est livré avec la poupée pour pince type W25,

Passage de barre en pince 19 mm. Diamètre maximum de serrage 25 mm. La poupée peut également être équipée d'un arbre avec nez américain «Camlock» D1-2" prenant des pinces type W20

CHARIOT

Course maximum sur le banc	mm	490
Course coulisseau transversal	mm	110
Course coulisseau longitudinal	mm	90
Précision des lectures sur tambours divisés	mm	1/100
Diamètre admis au-dessus du chariot	mm	130
Hauteur de pointe au-dessus du chariot	mm	20
Dimensions des burins	mm	10 x 12
Passage maximum dans la lunette fixe	mm	65
Passage maximum dans la lunette à suivre	mm	40
Avance du chariotage par tour de broche	mm	0,016 - 0,025 0,033 - 0,052 0,077 - 0,117

Avances plus grandes par l'emploi des roues de rechange

CONTRE-POUPÉE

Cône intérieur de la broche	mm	2°
Course de la broche	mm	70
Déplacement latéral (de chaque côté)	mm	12

MOTEUR À FLASOUES À PÔLES COMMUTABLES

Puissance	CV	0,8/1,5
Vitesses à vide	t/min.	750/3000

POIDS net	kg	610
brut	kg	760

ENCOMBREMENT (long. - prof. - haut.)	cm	152 x 60 x 123
--------------------------------------	----	----------------

EMBALLAGE (dimensions extérieures de la caisse)	cm	175 x 90 x 150
---	----	----------------

FABRIQUE DE MACHINES SCHAUBLIN S.A. BÉVILARD/SUISSE

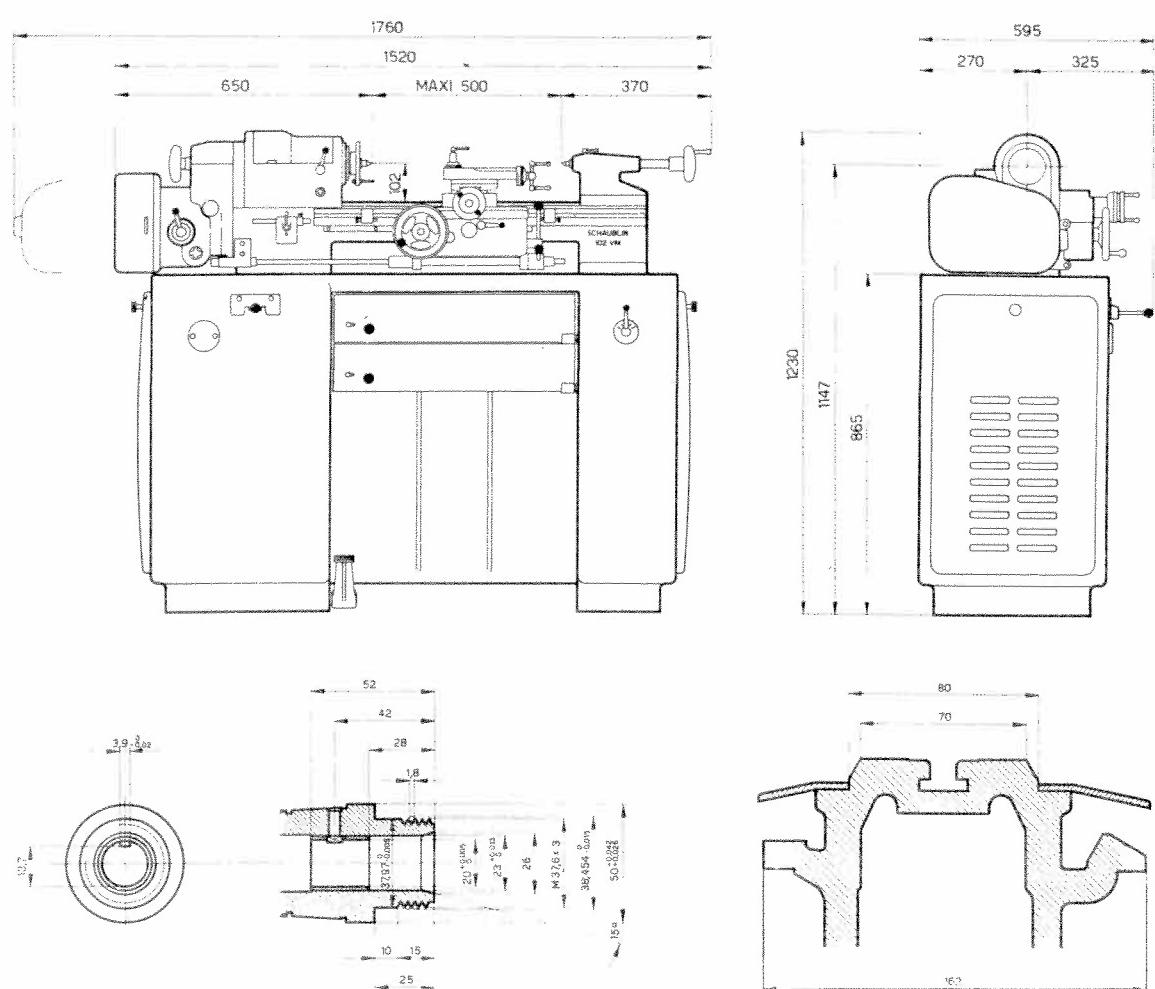


Tableau des vitesses

Position de la courroie trapézoïdale	Pos. de la courroie plate	Vitesses du moteur					
		750 t/min			3000 t/min		
I	Avec réducteur sur poupée et réducteur 102 VM 81.100	8	14	24	34	55	90
	Avec réducteur sur poupée ou réducteur 102 VM 81.100	40	70	120	170	270	450
	Sans réducteurs	230	340	580	840	1400	2300
II	Avec réducteur sur poupée et réducteur 102 VM 81.100	.10	18	30	45	70	120
	Avec réducteur sur poupée ou réducteur 102 VM 81.100	55	90	150	210	360	580
	Sans réducteurs	220	450	750	1100	1800	3000

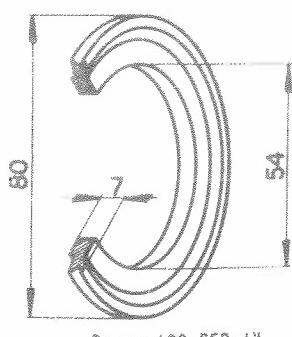
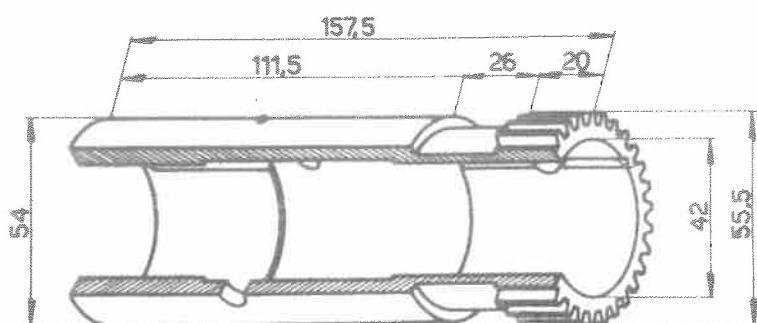
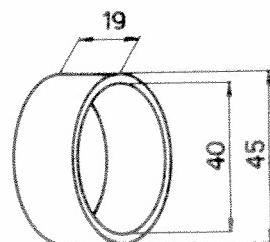
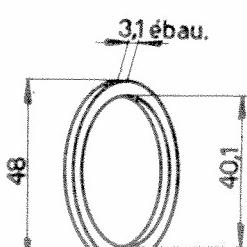
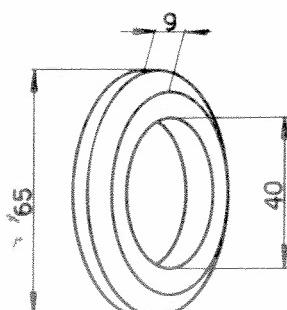
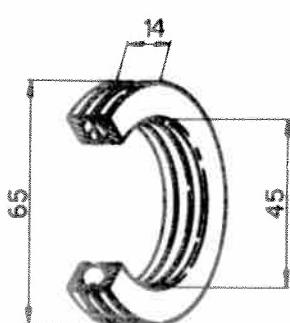
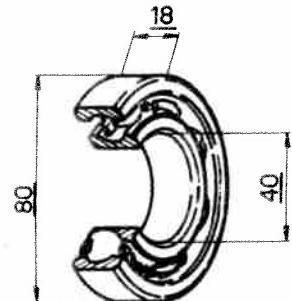
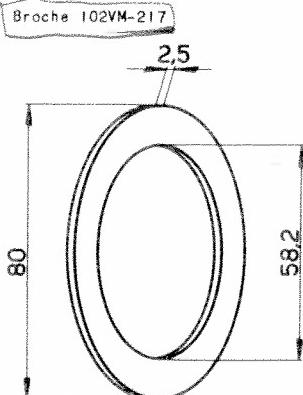
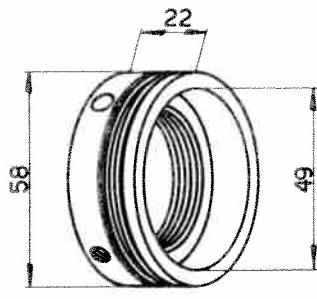
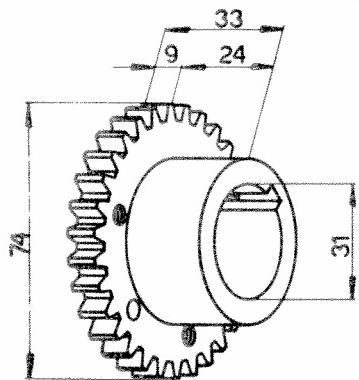
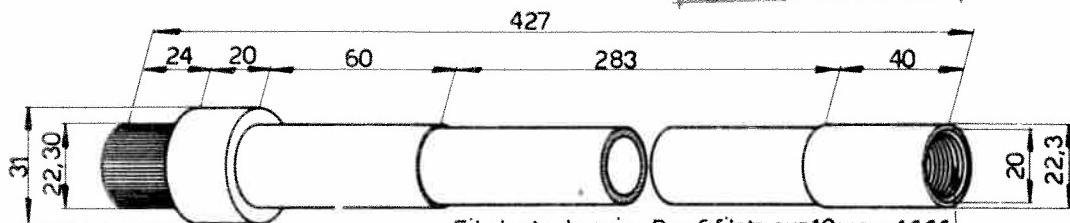
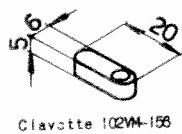
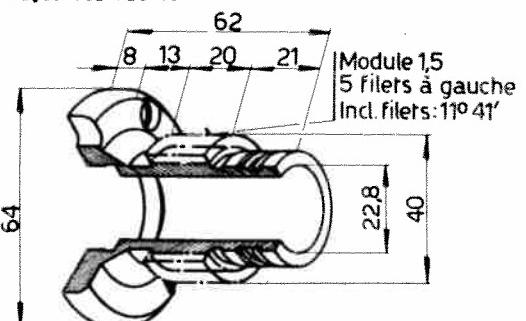
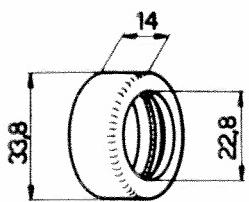
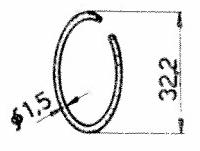
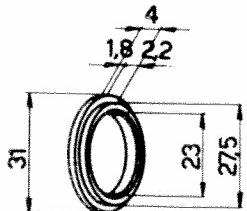
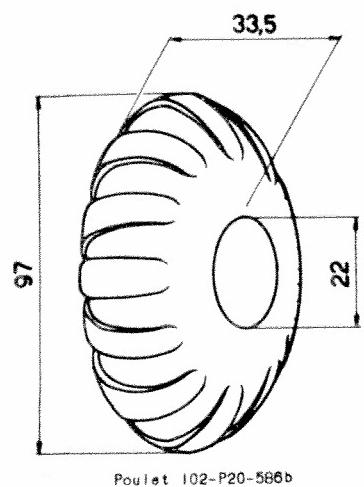
Les vitesses sur fond gris appartiennent à la gamme normale obtenue avec le renvoi simple.

Lorsque le réducteur 102-81.100 est utilisé à la place du renvoi normal, il est possible, sans déplacer les courroies et avec la poupée en marche, de sélectionner les vitesses du tableau dans les rapports 1:4 (moteur), 1:5 (réducteur) et 1:20 avec moteur et réducteur simultanément.

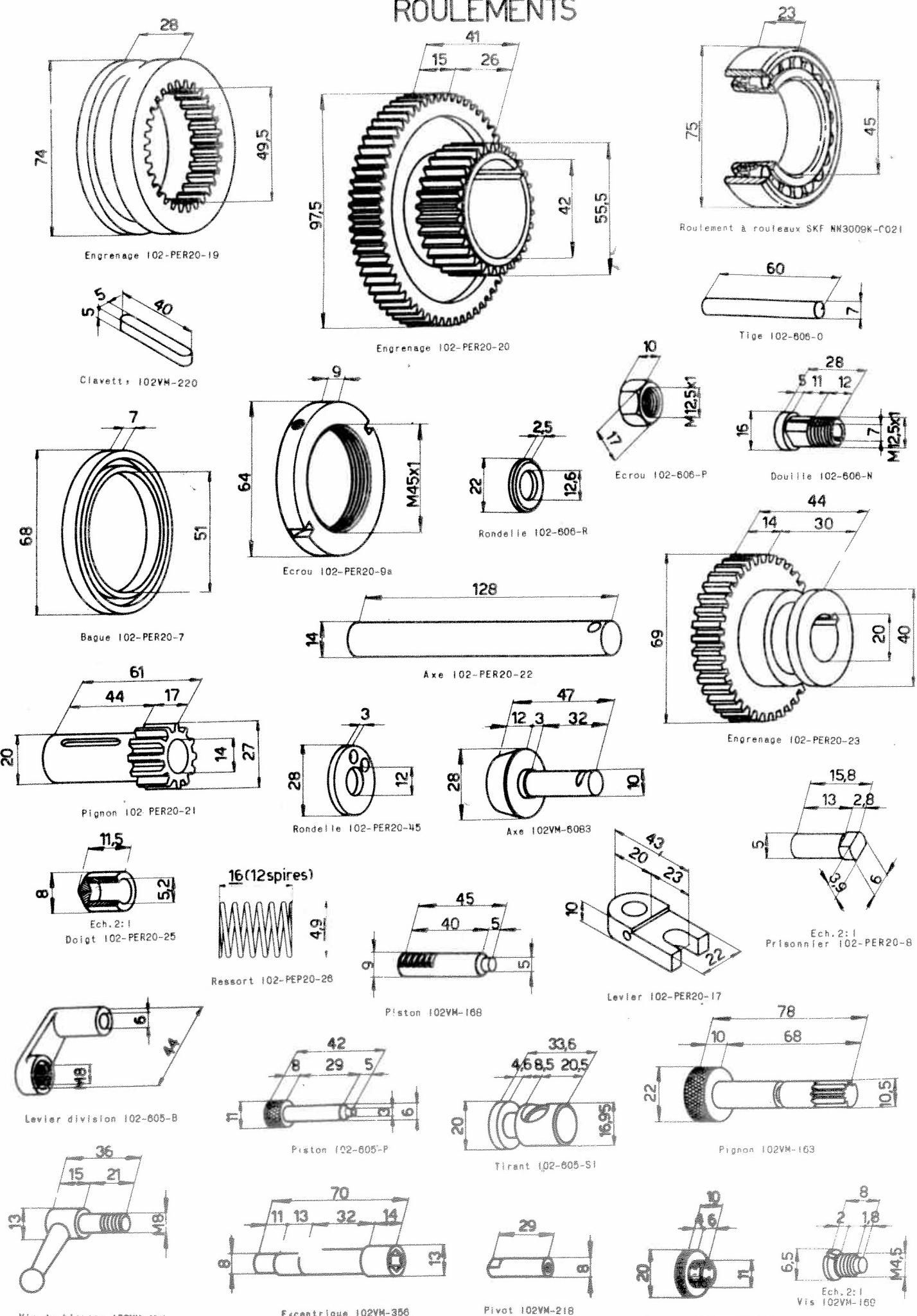
FABRIQUE DE MACHINES SCHAUBLIN S.A. BÉVILARD/SUISSE

TOUR 102VM

POUPEE A ENGRANAGES SUR ROULEMENTS

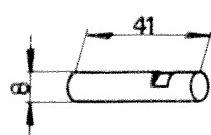


TOUR 102VM POUPE A ENGRANAGES SUR ROULEMENTS

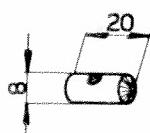


TOUR 102 VM

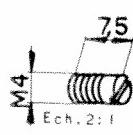
Banc et commande de filetage



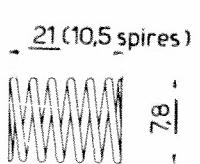
Pivot 102VM-6117



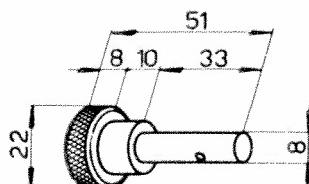
Piston 102VM-6119



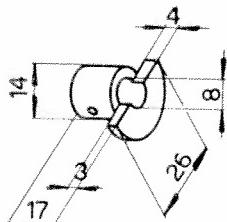
Vis 102VM-6120



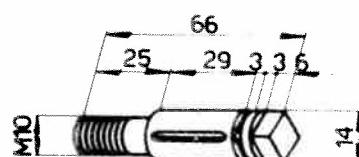
Ressort 0078-39



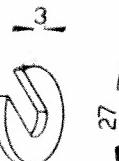
Poulet 102VM-11



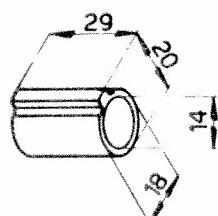
Verrou 102VM-742



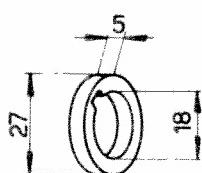
Tourillon 102VM-1712



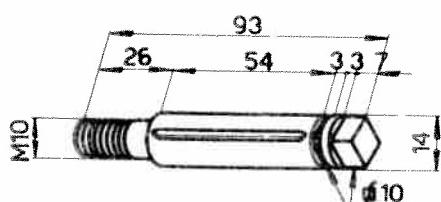
Rondelle à fourche 102VM-1715



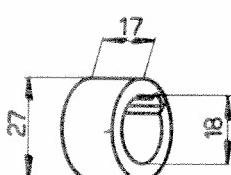
Douille à ergot 102VM-1713



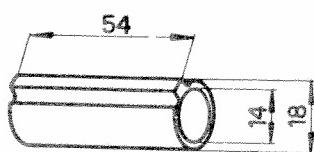
Bague intermédiaire 102VM-1714



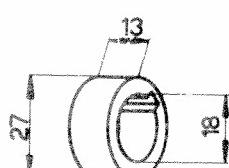
Tourillon 102VM-1720



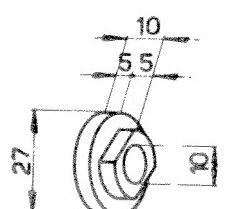
Bague 102VM-1716



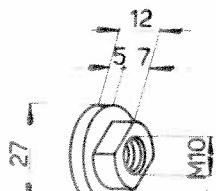
Douille à ergot 102VM-1721



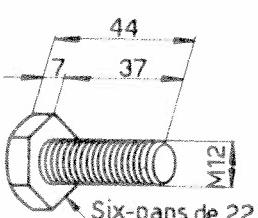
Bague 102VM-1723



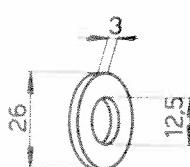
Rondelle à portée 102VM-1711



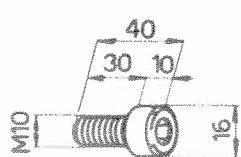
Ecrou 102VM-1710



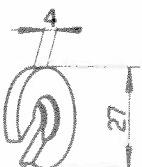
Vis 102VM-6094



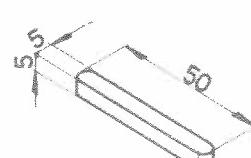
Rondelle 102VM-6095



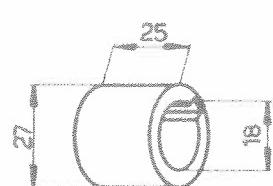
Vis CCM M10x30 462-270



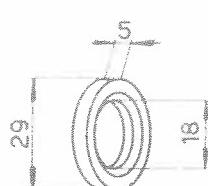
Rondelle à fourche 102VM-1700



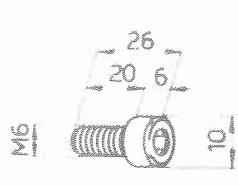
Clavette 102VM-6093



Bague 102VM-1717



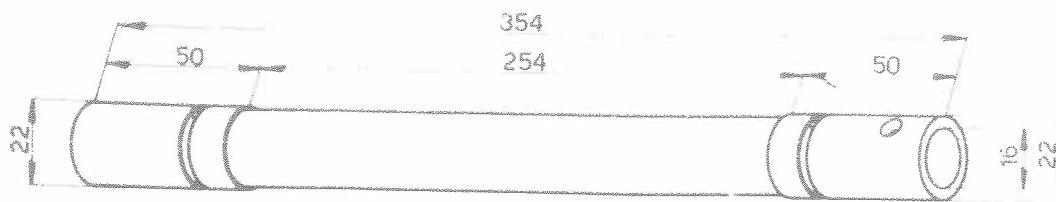
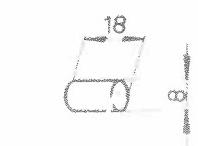
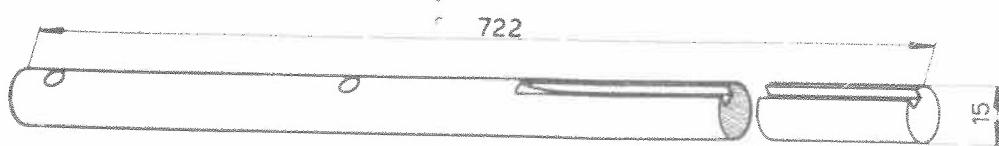
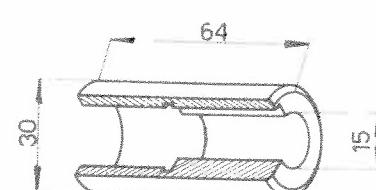
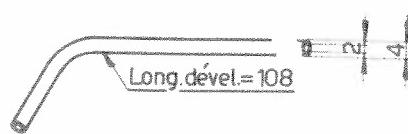
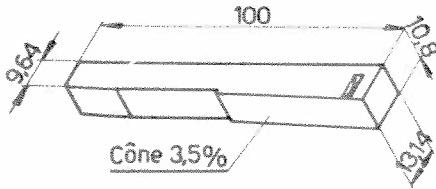
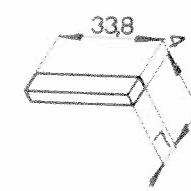
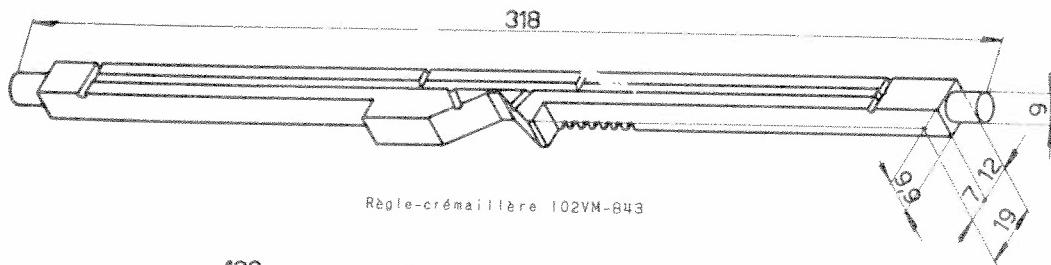
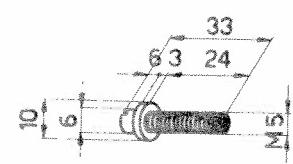
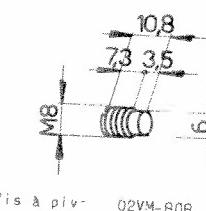
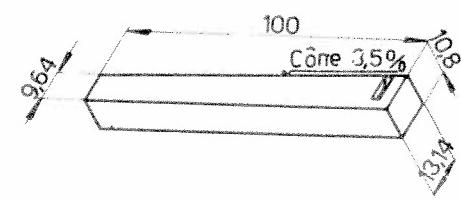
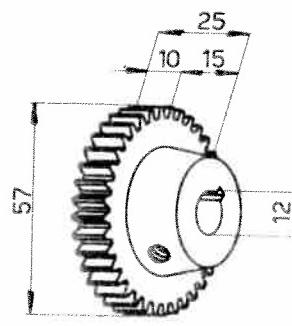
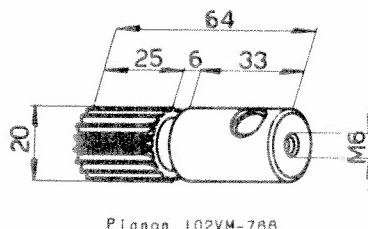
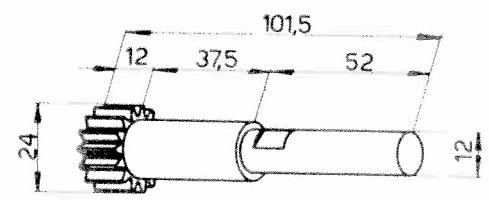
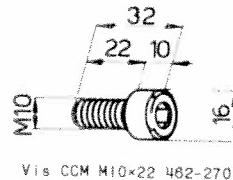
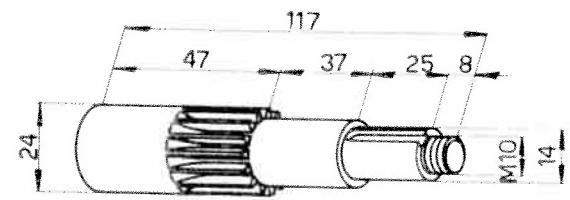
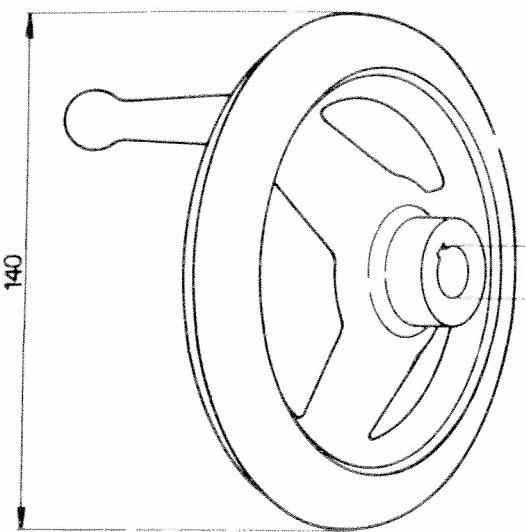
Bague 120VM-412



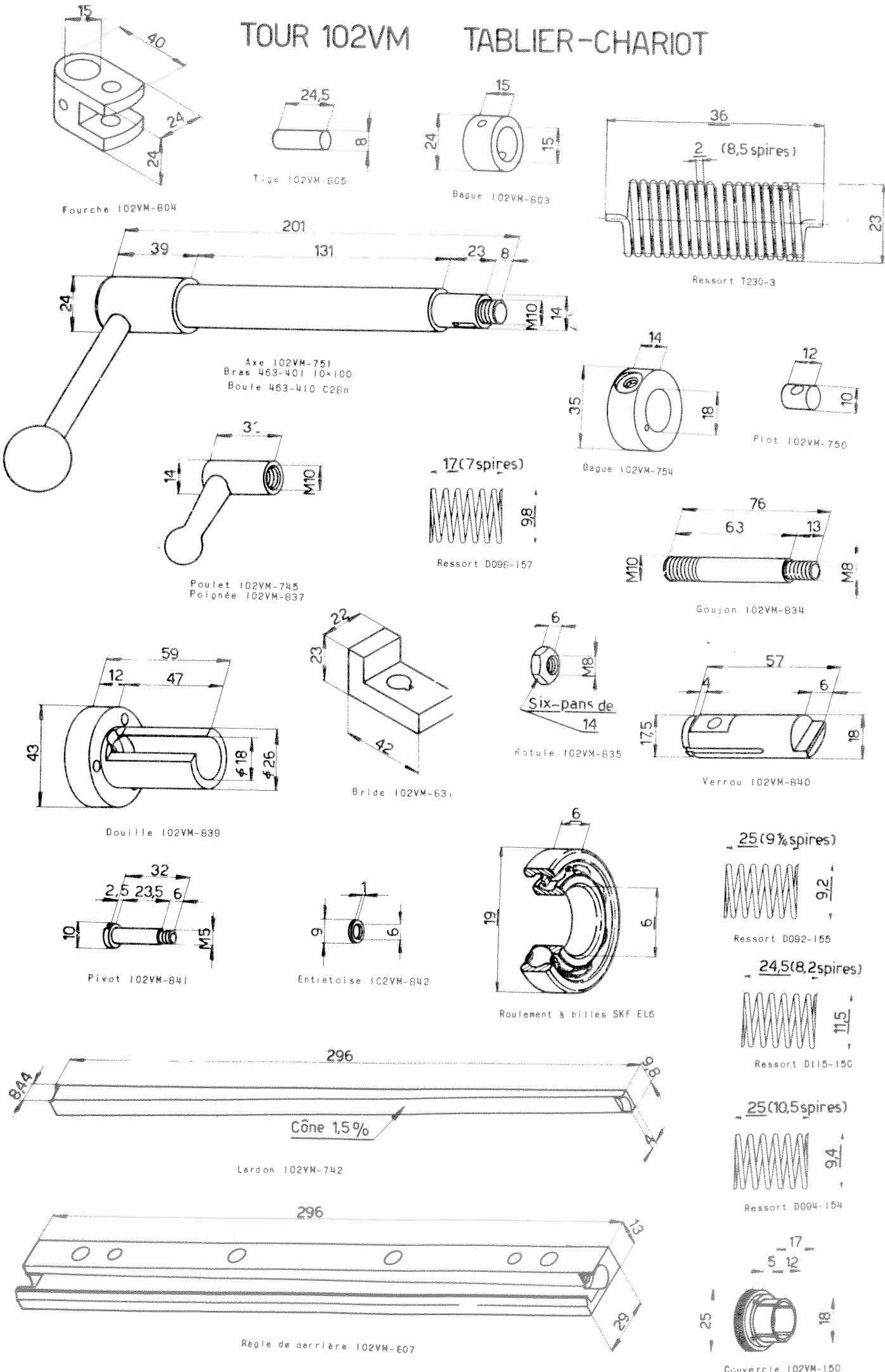
Vis CCM M6x20 462-270

4

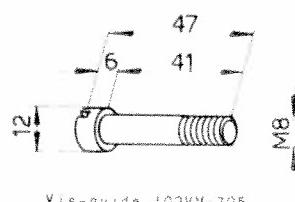
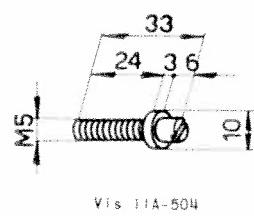
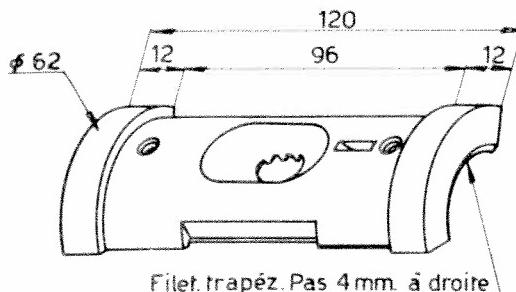
TOUR 102VM TABLIER-CHARIOT



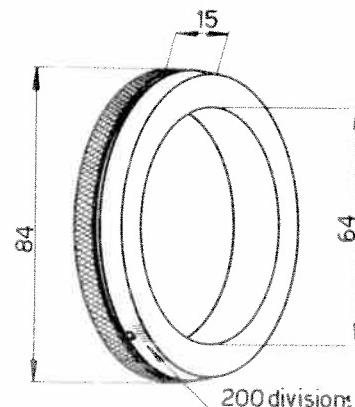
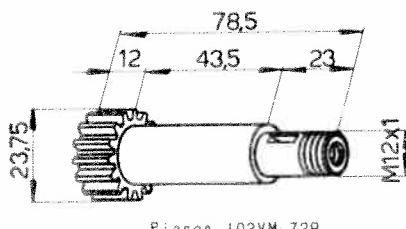
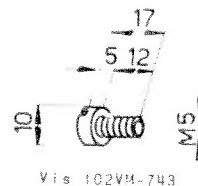
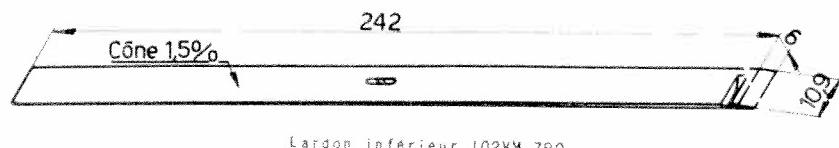
TOUR 102VM TABLIER-CHARIOT



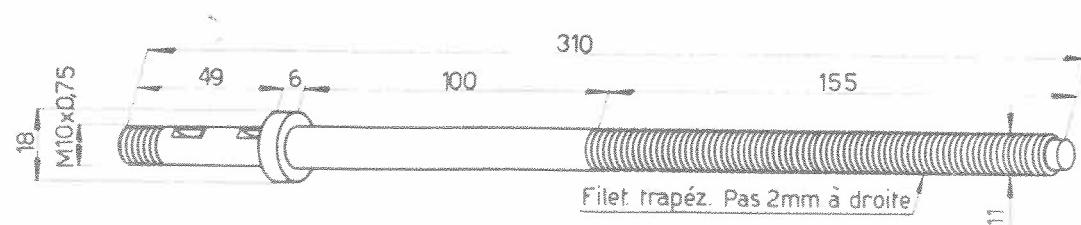
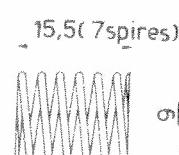
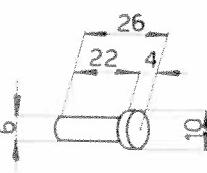
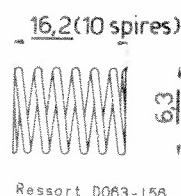
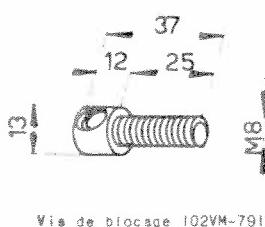
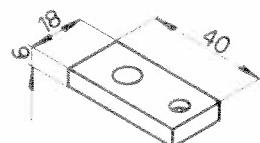
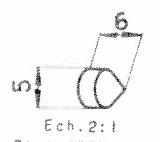
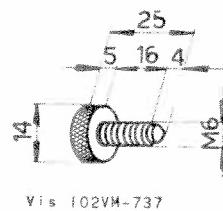
TOUR 102VM TABLIER-CHARIOT



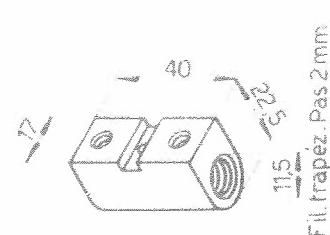
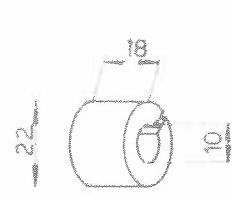
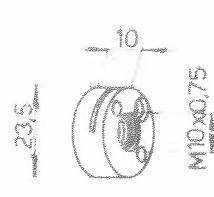
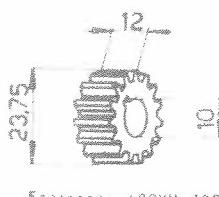
Pêigne 102VM-704



Contre-écrou spécial 102VM-736



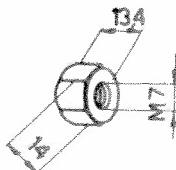
Vis 102VM-725



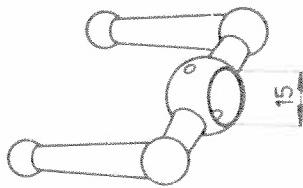
TIUR 102VM TABLIER-CHARIOT



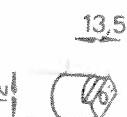
Vis de fixation 102-611-L



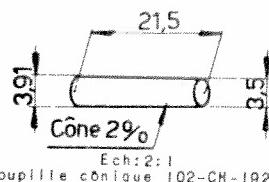
Ecrou 102-611-N



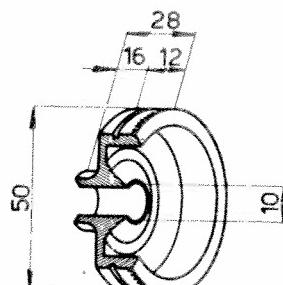
Pivelle 102VM-B36
Pointes 463-402 6x10x45



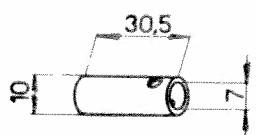
Doigt 102VM-B15



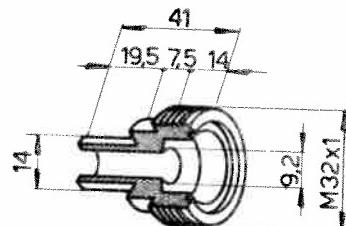
Goupille conique 102-CH-192



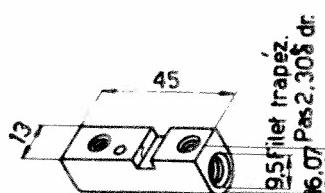
Vernier 102-CH-193



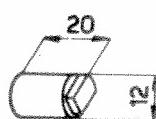
Douille 102-CH-187



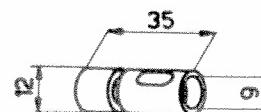
Manchon 102-CH-188



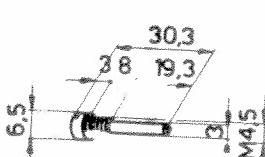
Ecrou supérieur 102-CH-133



Pivot 102-CH-125



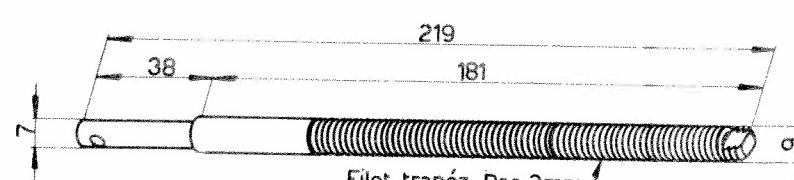
Guide 102-CH-181



Vis 102-611-O

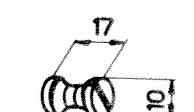


Vis-bouchon 102-614-J

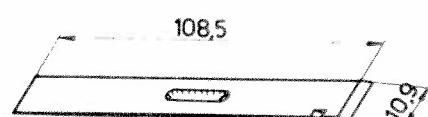


Filet trapéz. Pas 2mm.

Vis supérieure 102VM-191

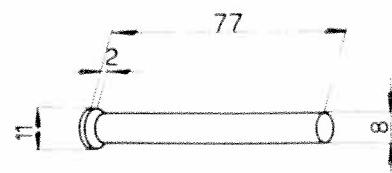


Excentrique 102-613-Z

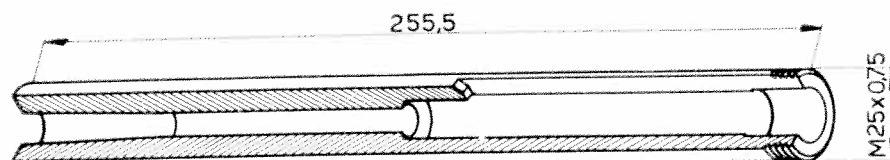


Lardon supérieur 102-611-SG

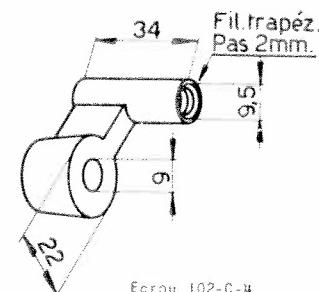
TOUR 102VM - CONTRE-POUPEE
ART. N°277



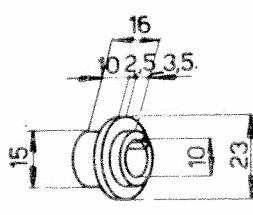
Chasse-pointe 102-608-G



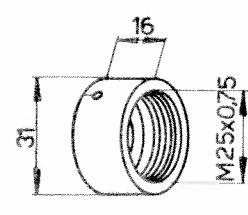
Douille graduée 102-608-D



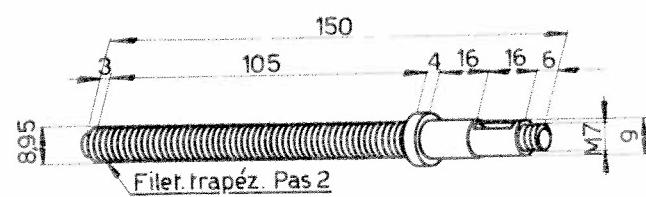
Ecrou 102-C-4



Douille 102-608-P

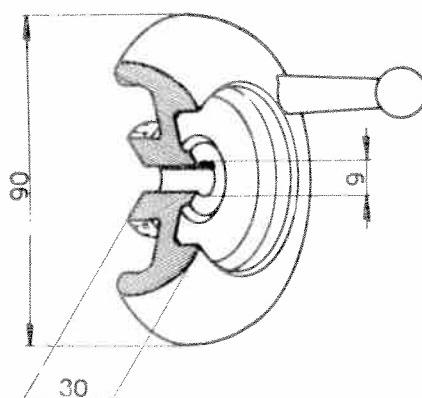


Ecrou-repère 102-608-Y

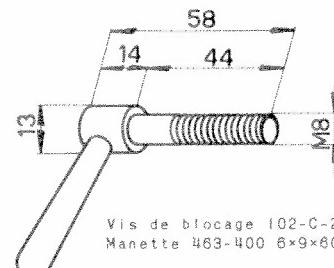


Fillet trapéz. Pas 2

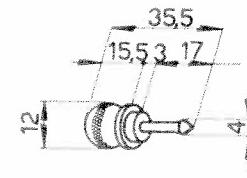
Vis 102-C-3



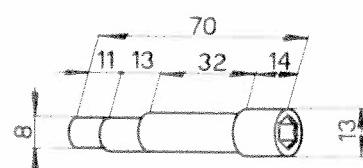
Volant 102VM-353
Poignée 463-402 8x14x55



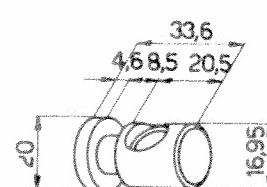
Vis de blocage 102-C-2
Manette 463-400 6x9x60



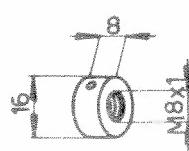
Tige pour huile 102-608-V



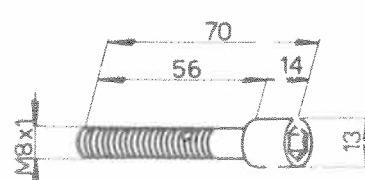
Excentrique 102VM-356



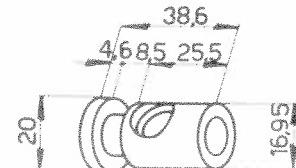
Tirant 102-605-S1



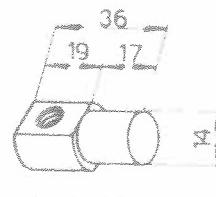
Ecrou 102VM-358



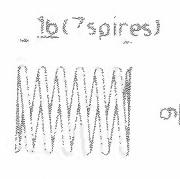
Vis 102VM-357



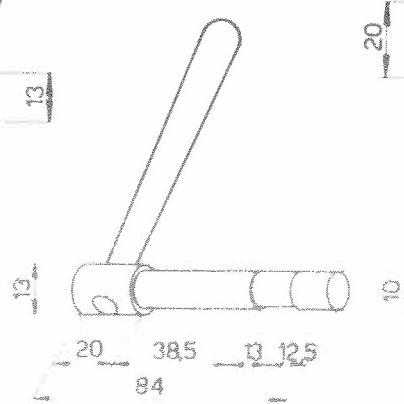
Tirant 102VM-354



Ecrou 102VM-359



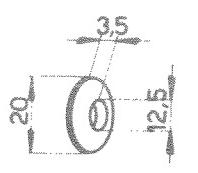
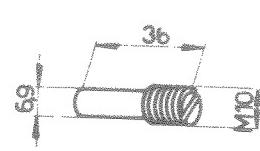
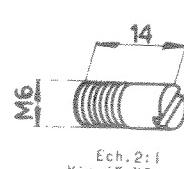
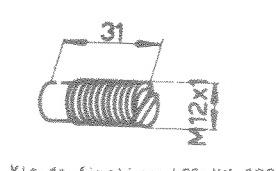
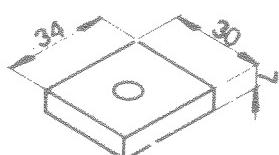
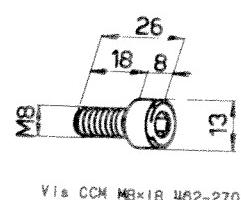
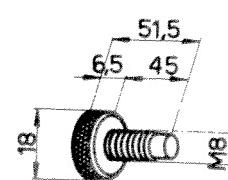
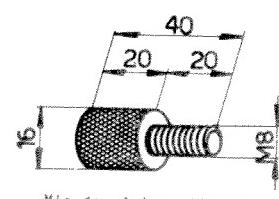
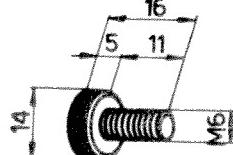
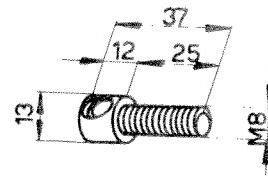
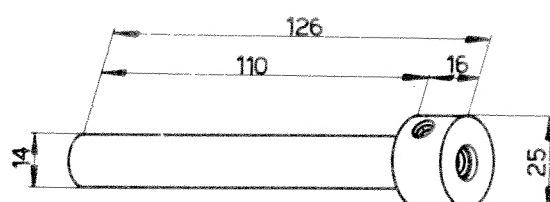
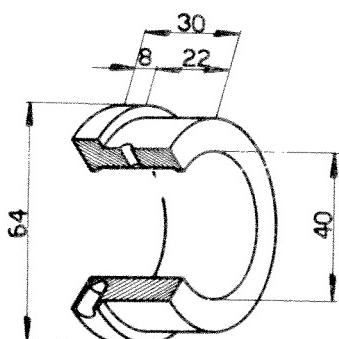
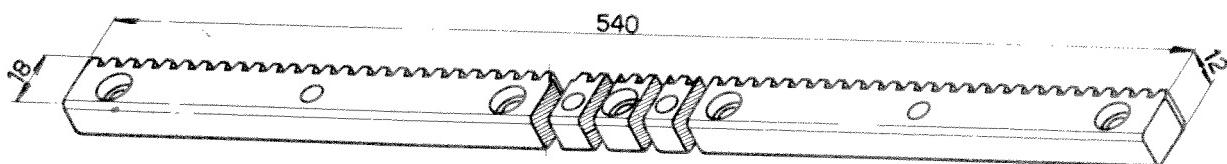
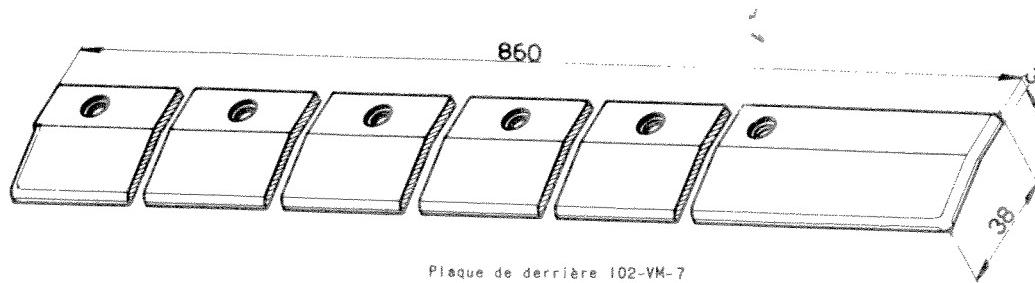
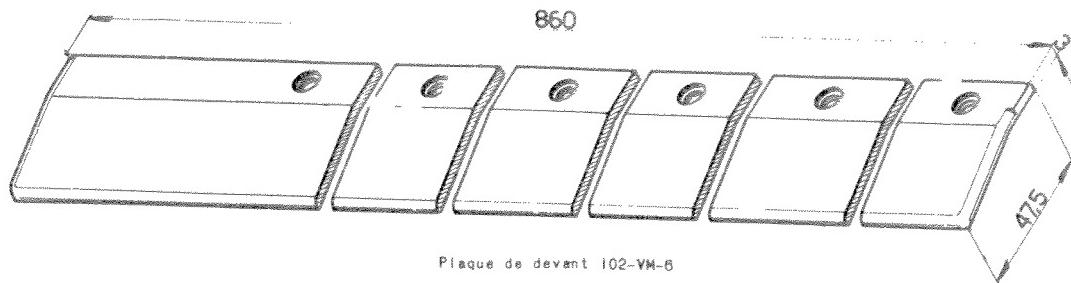
Ressort 0090-55



Excentrique 102-608-J
Manette 463-400 7x10x60

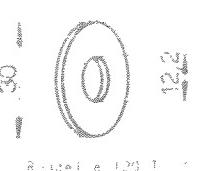
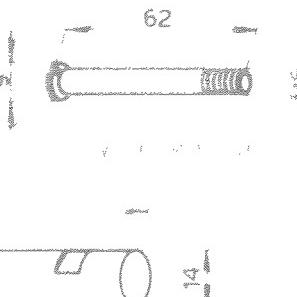
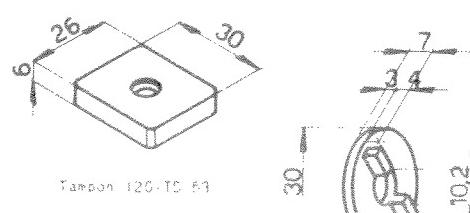
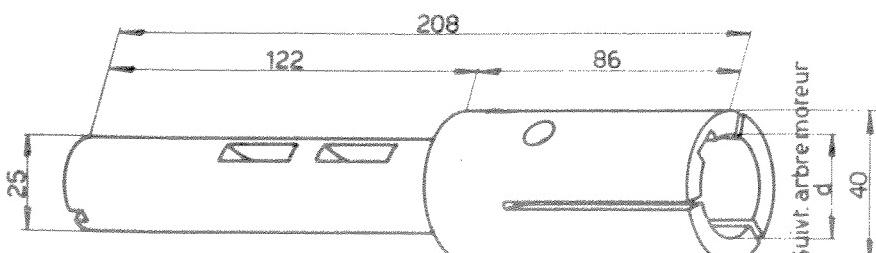
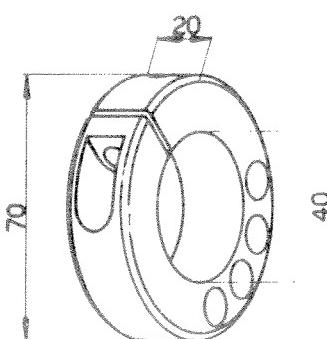
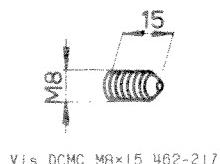
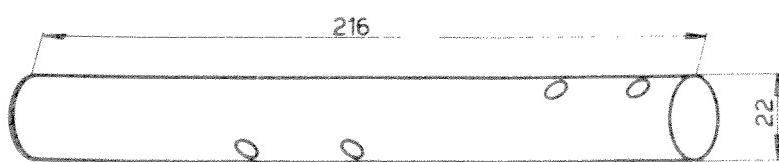
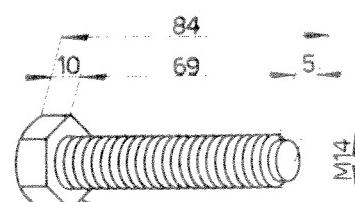
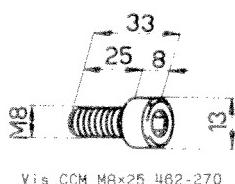
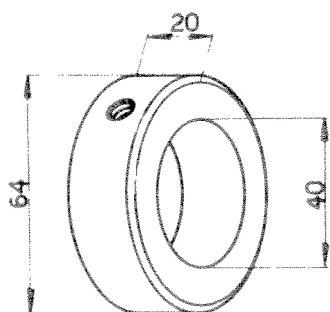
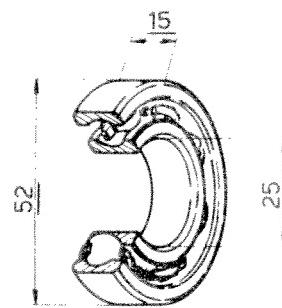
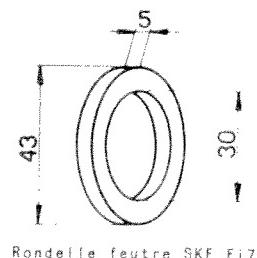
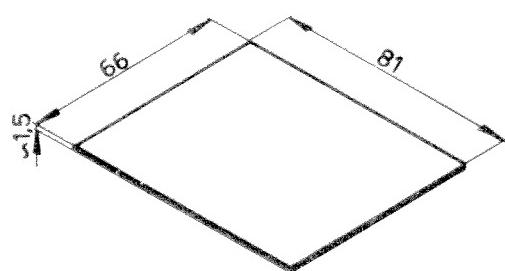
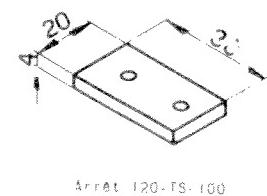
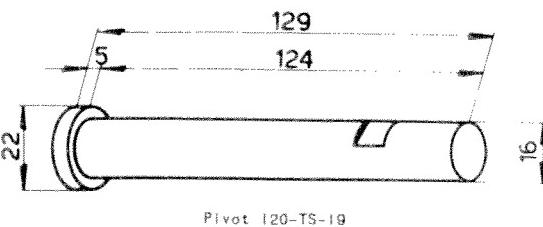
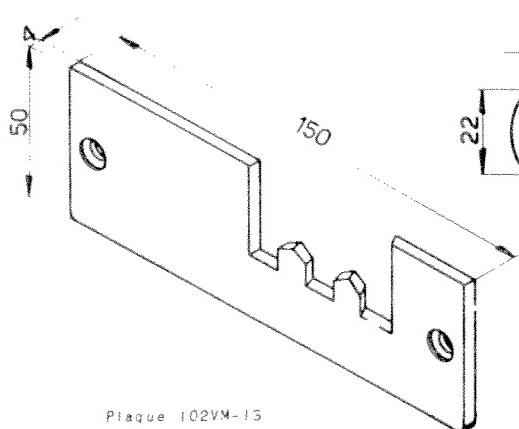
TOUR 102VM

BANC

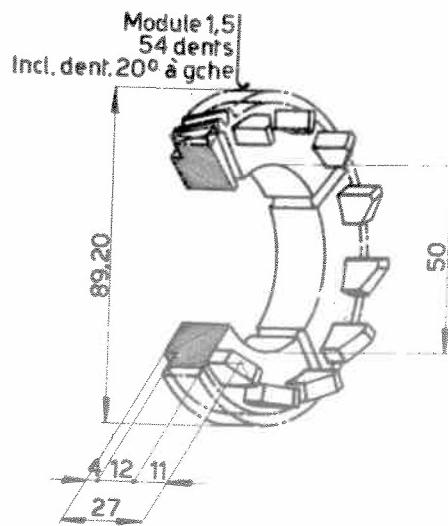
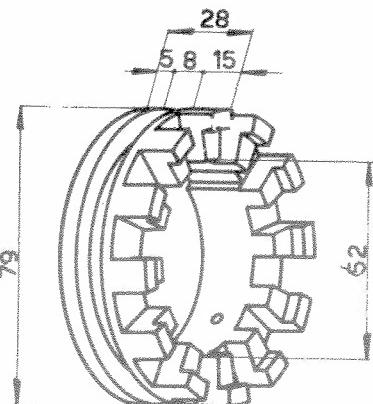
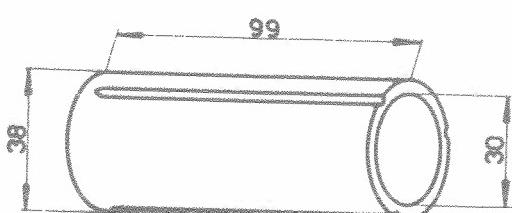
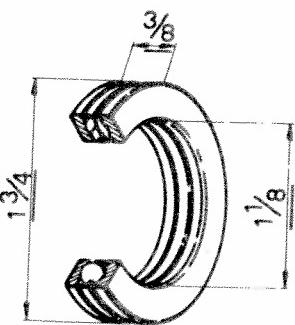
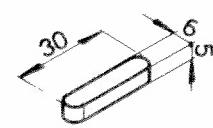
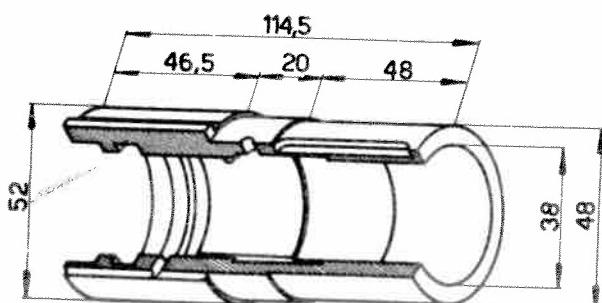
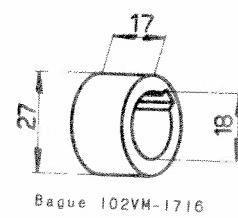
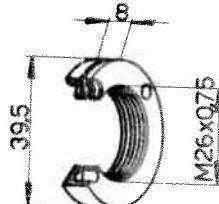
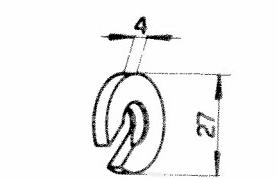
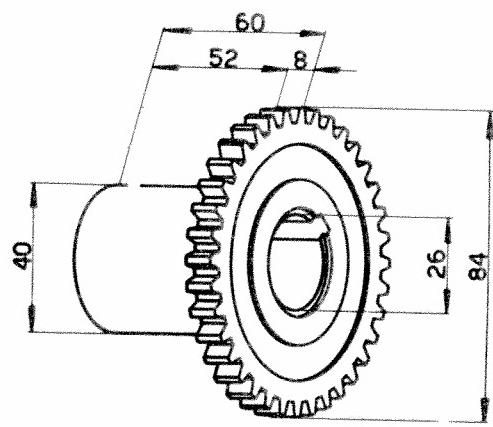
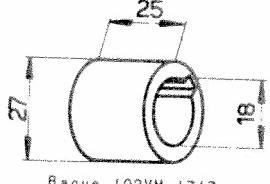
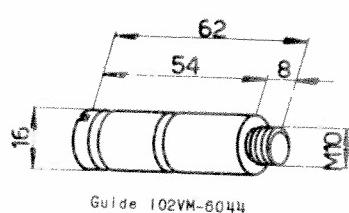
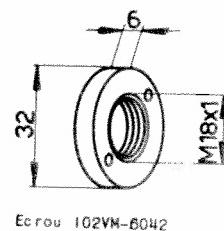
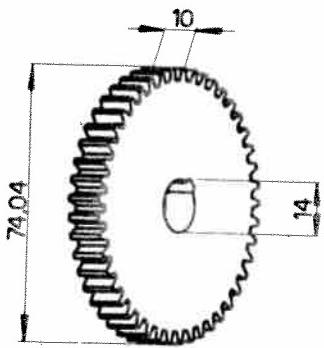
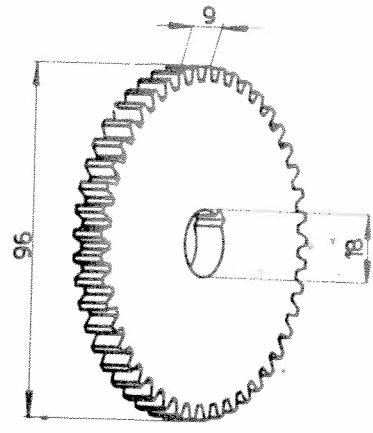
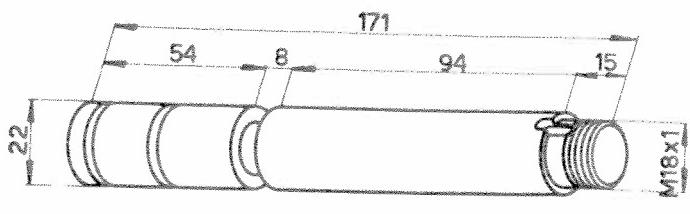


TOUR 102VM

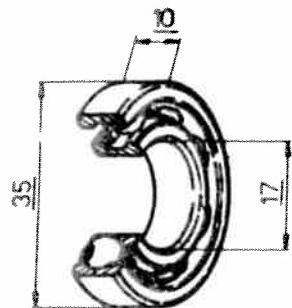
COMMANDE INDIVIDUELLE



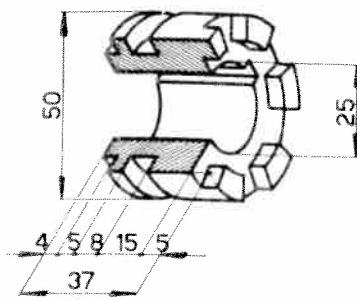
TOUR 102VM BOITE DE VITESSES



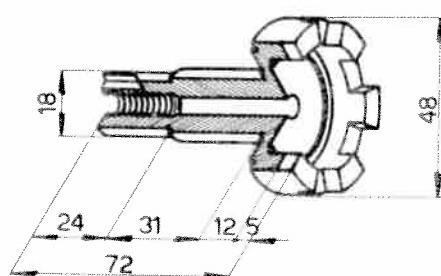
TOUR 102VM BOITE DE VITESSES



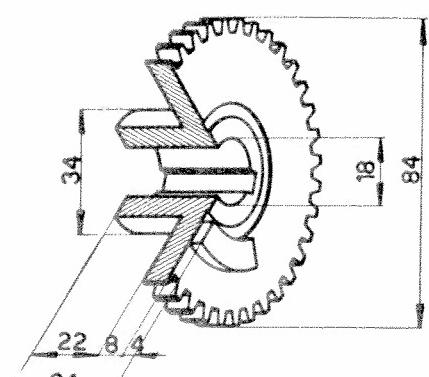
Roulement à billes SKF 6003X



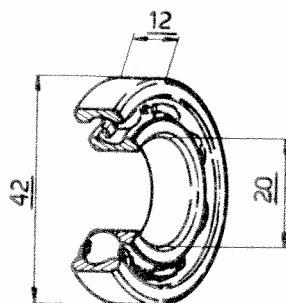
Entraîneur 102VM-6057



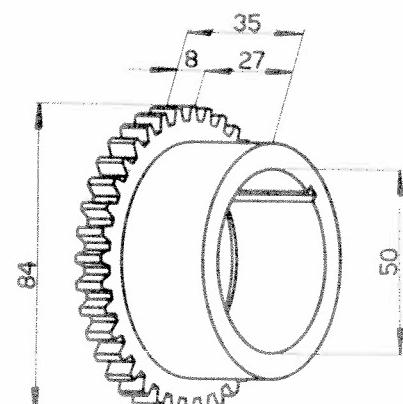
Arbre porte-engrenage 102VM-6147



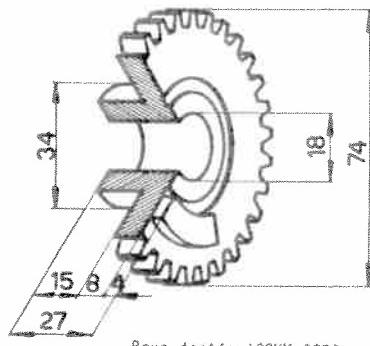
Roue dentée 102VM-6062



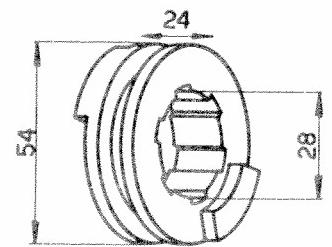
Roulement à billes SKF 6004X



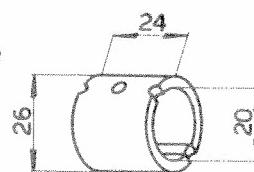
Engrenage 102VM-6058



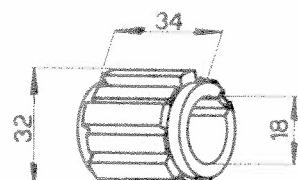
Roue dentée 102VM-6063



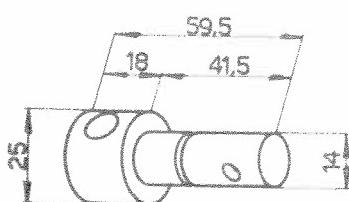
Entraîneur 102VM-6152



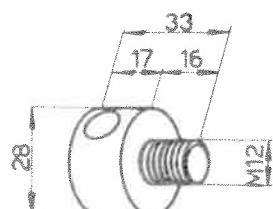
Emboîtement 102VM-6114



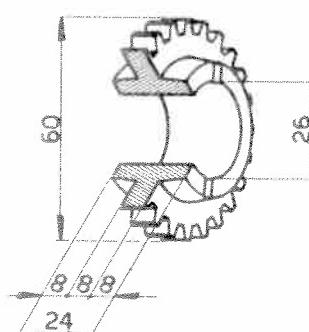
Manchon 102VM-6151



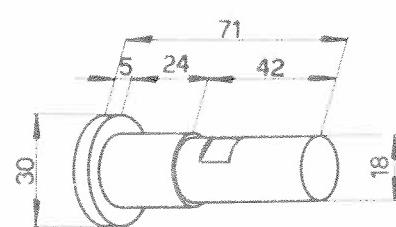
Pivot 102VM-6071



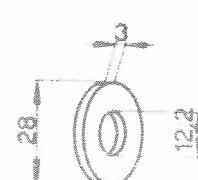
Vis de blocage 102VM-6047



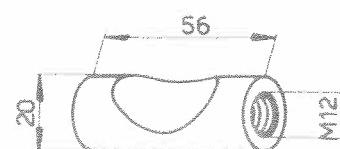
Roue intermédiaire 102VM-6065



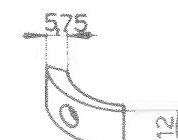
Tourillon 102VM-6064



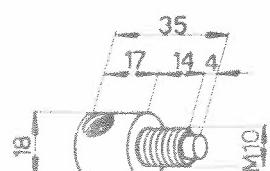
Bague 102VM-6115



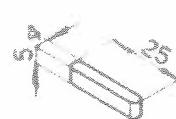
Tourillon de serrage 102VM-6066



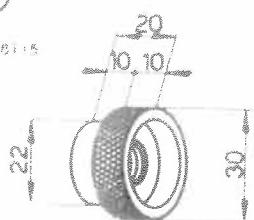
Segment 102VM-6069



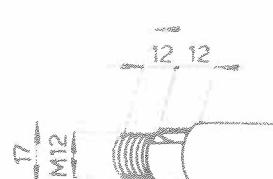
Vis de serrage 102VM-6112



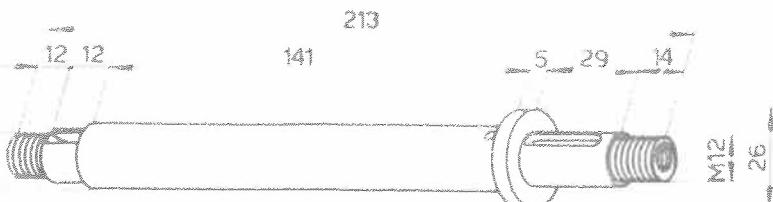
Clavette 102VM-6078



Fouet 102VM-6070

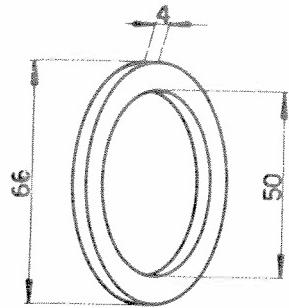


141

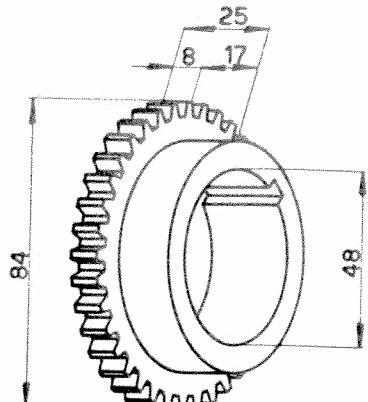


Arbre 102VM-6086

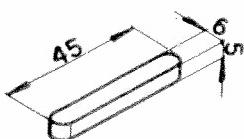
TOUR 102VM BOITE DE VITESSES



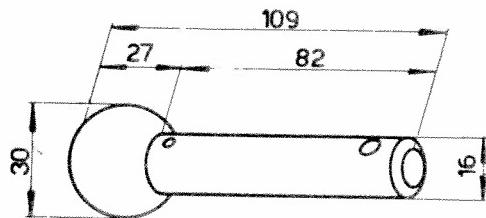
Bague de frottement 102VM-6034



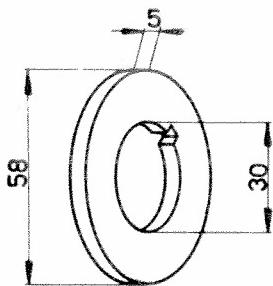
Roue dentée 102VM-6036



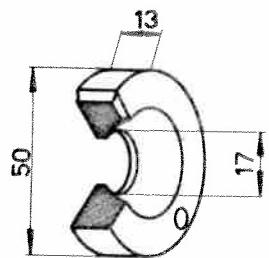
Clavette 102VM-6098



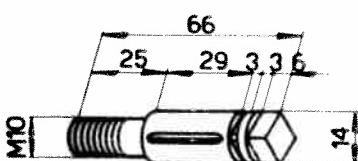
Rotule 102VM-684



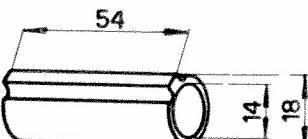
Bague 102VM-6037



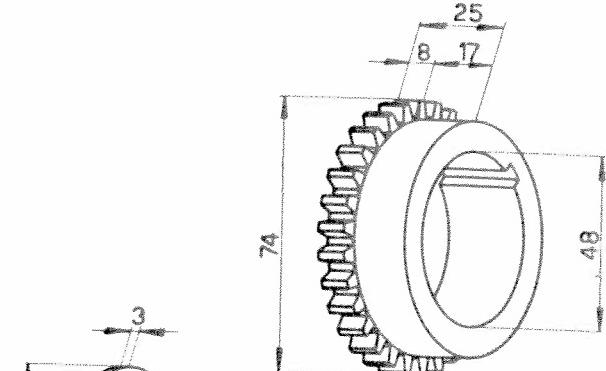
Bague à rotule 102VM-683



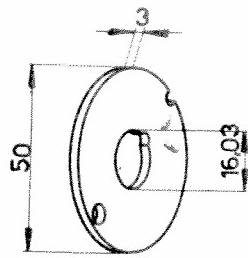
Tourillon 102VM-1712



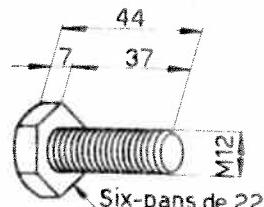
Douille à ergot 102VM-1721



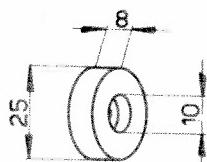
Roue dentée 102VM-6096



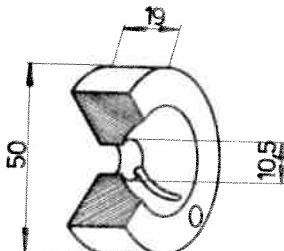
Bague 102VM-6116



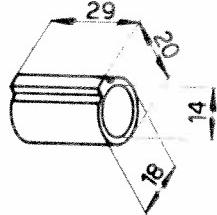
Vis 102VM-6094



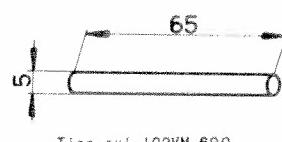
Rondelle 102VM-686



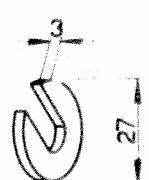
Bague à rotule 102VM-685



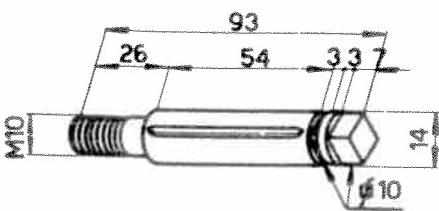
Douille à ergot 102VM-1713



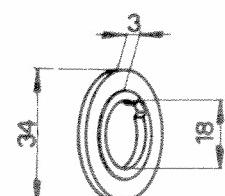
Tige cyl. 102VM-689



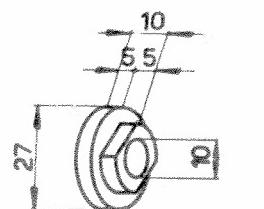
Rondelle à fourche 102VM-1715



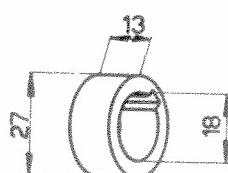
Tourillon 102VM-1720



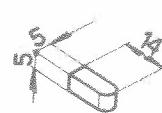
Rondelle 102VM-6148



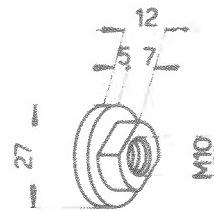
Rondelle à portée 102VM-1711



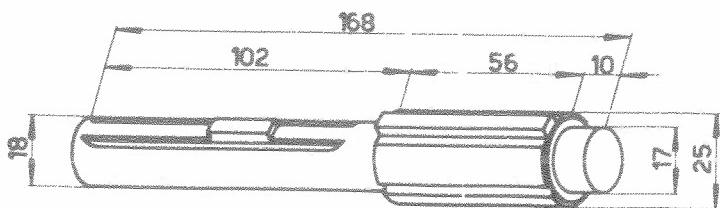
Bague 102VM-1723



Clavette 102VM-6133

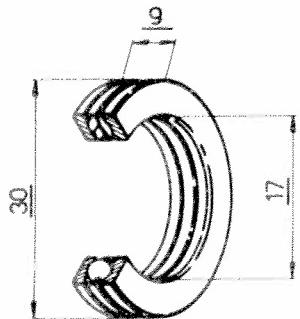


Ecrou 102VM-1710

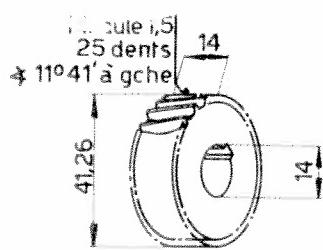


Arbre 102VM-6150

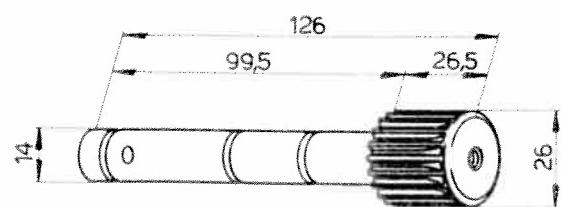
TOUR 102VM BOITE DE VITESSES



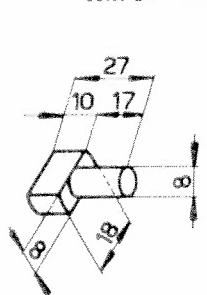
Butée à billes SKF 51103



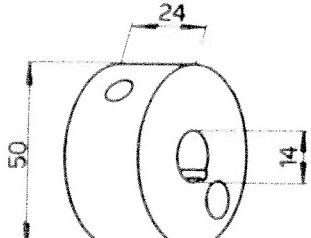
Roue hélicoïdale 102VM-6067



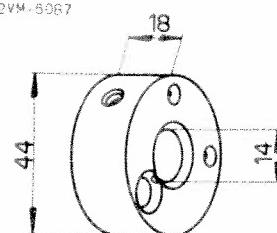
Pignon 102VM-6069



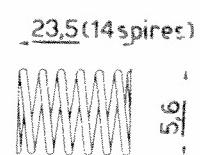
Doigt 102VM-6070



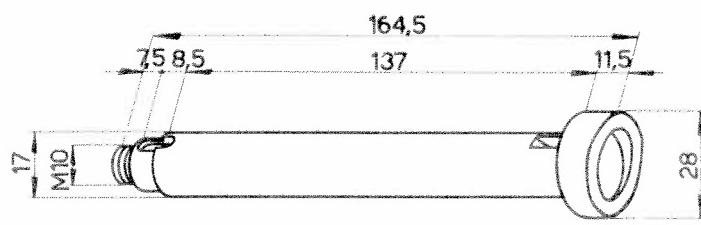
Canon 102VM-6072



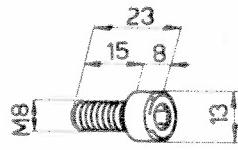
Piston 102VM-6075



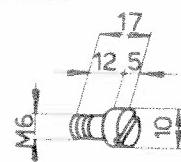
Ressort D056-38



Axe 102VM-6155



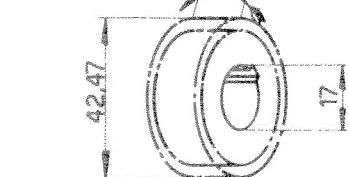
Vis COM M8x15 462-270



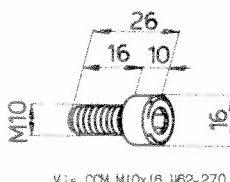
Vis de fixation 102VM-8085

Pignon 102VM-6077

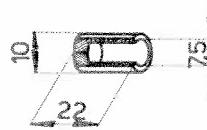
Module 1,5
Incl. dent. 9dents
Incl. dent. 70° à gche



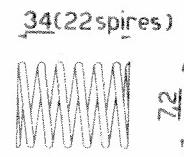
Roue hélicoïdale 102VM-6082



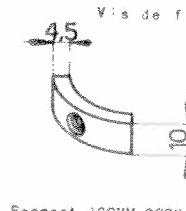
Vis COM M10x16 462-270



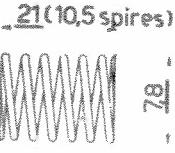
Piston 102VM-6142



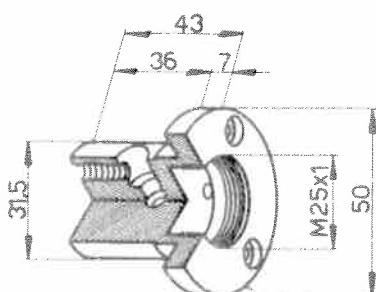
Ressort D072 96



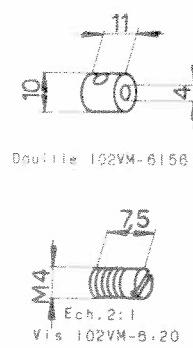
Segment 102VM-6084



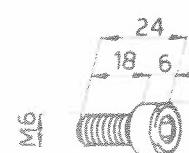
Ressort D078-39



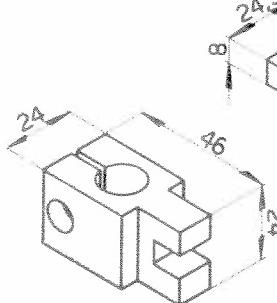
Corps de pompe 102VM-6157



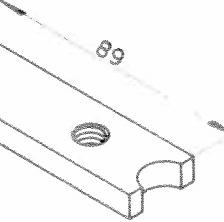
Douille 102VM-6156



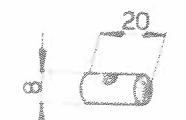
Ech. 2:1
Vis 102VM-6-20



Bride 102VM-6067



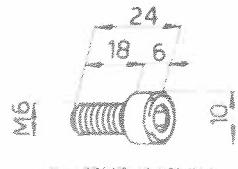
Barette 102VM-6045



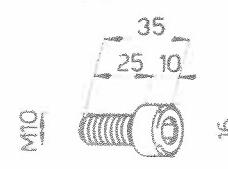
Piston 102VM-6113



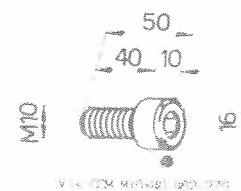
Piston 102VM-6112



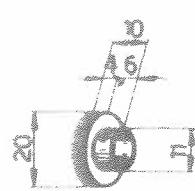
Vis COM M6x16 462-270



Vis COM M10x16 462-270



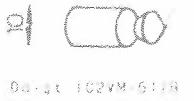
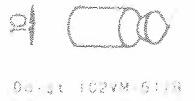
Vis COM M10x16 462-270



Charnière graisseuse 65 P 50



164

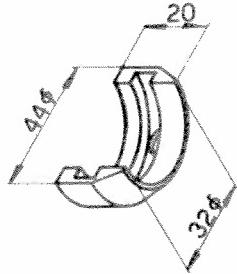


Vis COM M10x16 462-270

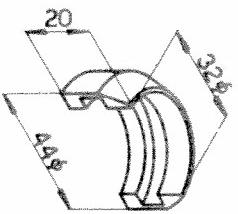
TOUR 102VM

DISP. DE SERRAGE PAR
LEVIER

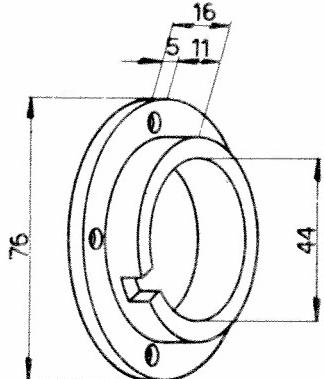
ART. N°174



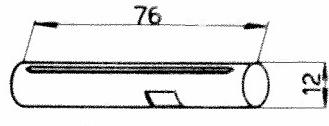
Chicane 102VM-6178



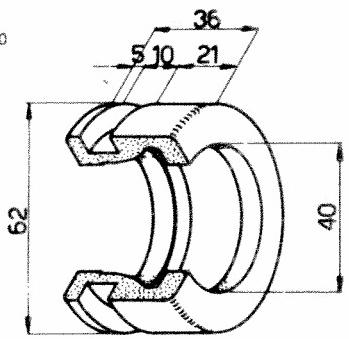
Chicane 102VM-6179



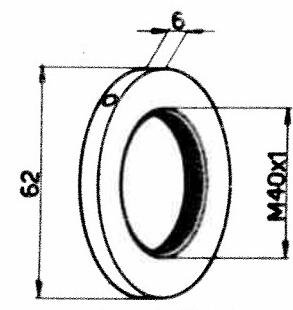
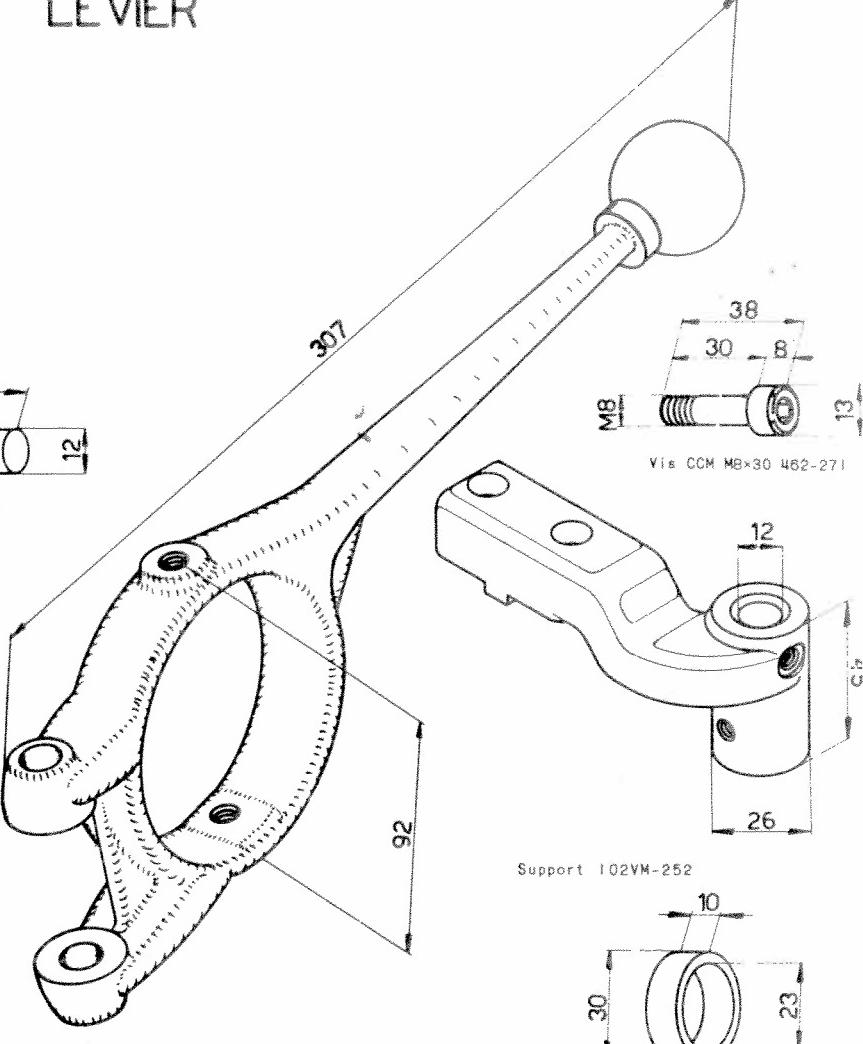
Bague 102VM-6180



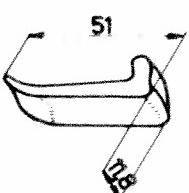
Pivot 102VM-256



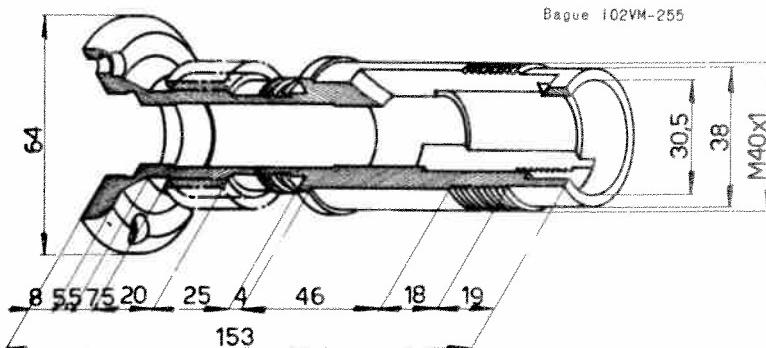
Bobine 102-616-V2



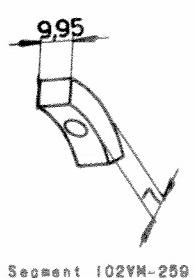
Bague 102VM-258



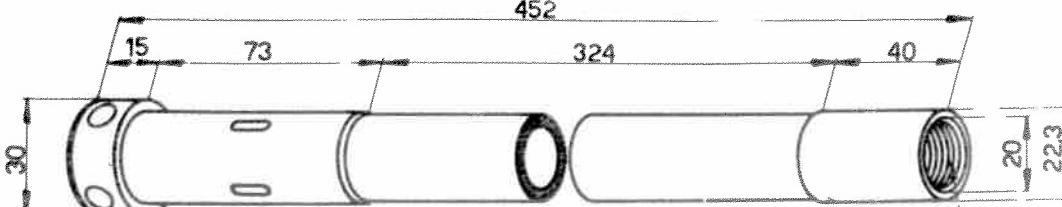
Chien 120-P-109



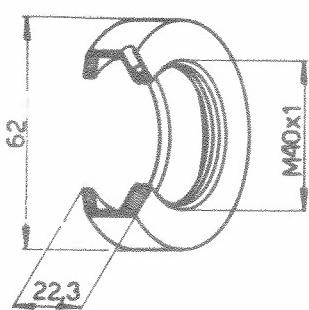
Manchon 102VM-253



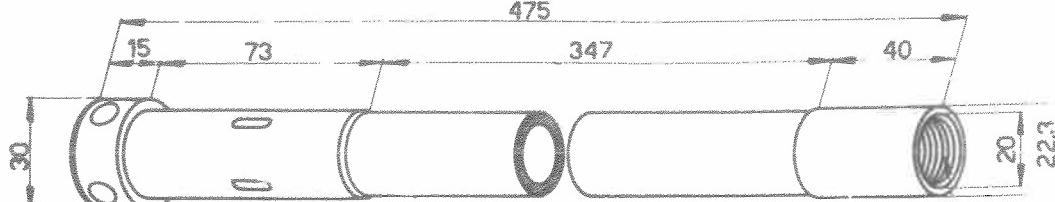
Segment 102VM-259



Fil.dens de scie. Pas 6 filets sur 10mm=1,666



Bague 102VM-257

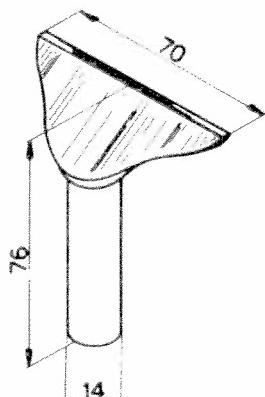


Fil.dens de scie. Pas 6 filets sur 10mm=1,666

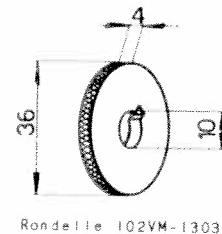
Clé de serrage 102VM-254

TOUR 102VM

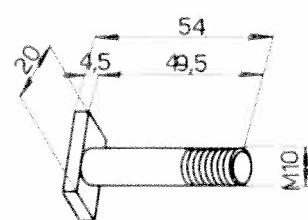
SUPPORT A MAIN LUNETTE A 3 CHIENS LUNETTE A SUIVRE



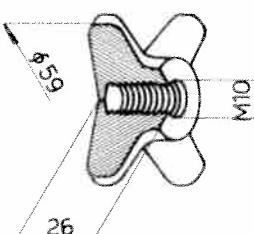
Eventail 102-615-B



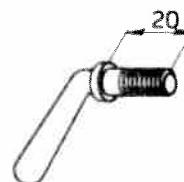
Rondelle 102VM-1303



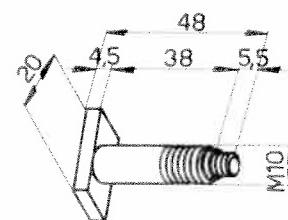
Tige de blocage 102-VM-1302



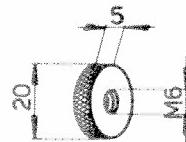
Poulet 102VM-1301



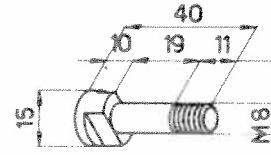
Manette de blocage 102-615-C



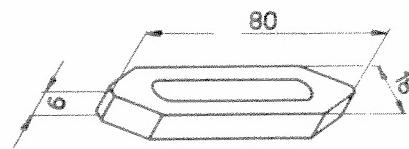
Tige de fixation 102VM-1602



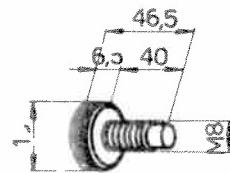
Poulet 102VM-1603



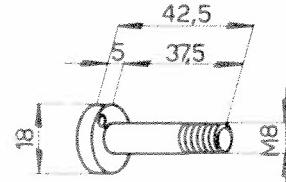
Vis de fixation 102-618-C



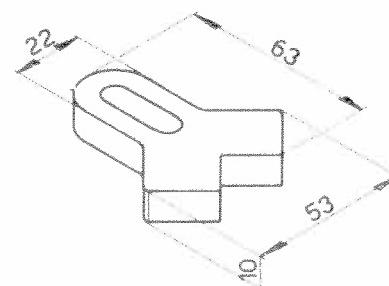
Chien 102-618-B



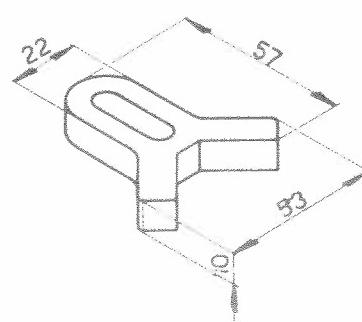
Vis E2 M8x40 462-277



Tige de fixation 102VM-1655



Chien 102VM-1652



Chien 102VM-1653

TOUR 102VM

POMPE ET TUYAUTERIE. GENOUILLERE

